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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/936,479	09/13/2001	Siegfried Schweidler	PD990014	6074	
7590 02/07/2007 Joseph S Tripoli			EXAMINER		
Thomson Mult	imedia Licensing		. LI, ZHUO H		
PO Box 5312 Princeton, NJ 0	08540		ART UNIT	PAPER NUMBÉR	
		•	2185		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	02/07/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		App	ication No.	Applicant(s)			
Office Action Summary		09/9	36,479	SCHWEIDLER ET AL.			
		Exar	niner	Art Unit			
		Zhud	H. Li	2185			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO WHIC - Exter after: - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANAGER, FROM THE MANAGER, FROM THE MANAGER (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE C of 37 CFR 1.136(a). In unication. tutory period will apply will, by statute, cause t	OF THIS COMMUNICATION on no event, however, may a reply be ting and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this of (D) (35 U.S.C. § 133).			
Status							
2a) <u></u> □	Responsive to communication(s) file. This action is FINAL . 2 Since this application is in condition to closed in accordance with the practice.	b)⊠ This action for allowance ex	n is non-final. scept for formal matters, pro		e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-9 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restric on Papers The specification is objected to by the	e withdrawn fro tion and/or elect					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority u	inder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Infor	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 6, 2006 has been entered.

Response to Amendment

2. This Office Action is in responds to the Amendment filed on December 6, 2006, claims 1-9 are pending in the application.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyer et al. (US PAT. 5,410,546 hereinafter Boyer) in view of Hamada (JP 411,004,255A).

Regarding claim 1, Boyer discloses a method for management of data received via a serial data bus (108, figure 1), in a receiving device (107, figure 1) comprising the steps of

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receiving data packet transmitted in bus packets having a variable length (col. 6 lines 12-15), each bus packet having a header portion of the packet, read as a header, and a data portion, read as a payload data field, a counter (415, figure 4) for carrying out a modulo-n counting of the data block in order to determine the data source packet boundaries (col. 13 lines 1-23) and in that the beginning of a new data source packet is signaled to a memory management device at the beginning of the next counting interval (col. 13 lines 30-64 and col. 16 line 66 through col. 17 line 6). Boyer differs from the claimed invention in not specifically teaches the payload data field being divided into a number of data blocks having a defined length, a combination of a defined number N of data blocks forming a data source packet of fixed length, section-by-section transmission of the data source packet within the framework of data blocks being permitted. However, Hamada discloses packet multiplex transmission device (figure 1), receive variablelength packet, (106, figure 1) comprising a packet length information (203), i.e., header, stored in the recording buffer (101, figure 1), and the variable length pack (106) is further transfer to the input/output control unit (102, figure 1) via the buffer [0012], wherein the input/output control unit (102) is capable to perform a generation function, which dividing the variable-length packet (201, figure 2) into a number of data blocks in a fixed length frame (202, figure 2) with a plurality of fixed data blocks (pk+1 to pk+3, figure 2), and header information (204, figure 2) with fixed-length frame header (113), and further transmit out in a fixed length frame output (114, figure 1) and ([0014-0018]), in addition, Hamada discloses each of the variable length packet is transmitted and outputted as a fixed-length frame about the inputted variable-length packet at the fixed length packet based on the packet size information to determine the N of the fixed length blocks, i.e., (pk+1 to pk+3), and the variable length packet is divided into two or

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more fixed-length frames with its header information to locate the beginning of the variable-length packet, and a down counter (103) cooperate with the first header pointer to determining the size of the variable length packet transfer at the fixed length frame with its corresponding blocks ([0020] to [0025]). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the data management device of Boyer in having the payload data field being divided into a number of data blocks having a defined length, a combination of a defined number N of data blocks forming a data source packet of fixed length, section-by-section transmission of the data source packet within the framework of data blocks being permitted, as per teaching by the packet multiplex transmission device of Hamada, because it reduce power consumption, and improves transmission efficiency (abstract).

Regarding claims 2-3, Boyer discloses each bus packet being subject to CRC checking and the checking results being buffer-stored in order to be able to ascertain whether a data source packet transmitted in two or more bus packets has been transmitted without transmission errors, wherein a reference count reading is transmitted in each bus packet in order to check the completeness of the transmitted data, and in which comparison counting of the received data block is effected and, when the data block associated with the reference counter reading is received, the result of the comparison counting is compared with the reference counter reading and an error signal is output in the event of non-correspondence (col. 7 lines 11-24).

Regarding claim 4, Hamada differs from the claimed invention in not specifically teaching wherein the defined number n of data blocks of a data source packet corresponds to the number 8 and the modulo-n counting is correspondingly modulo-8 counting. However, it is old and notoriously well known in the art of having the defined number of n data blocks

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corresponding to the number of 2 to power x, where x = 1, 2, 3, ..., in which 8 is equal to 2 to power 3. In addition, utilizing modulo-8 counter do not have a disclosed purpose nor overcome any deficiencies in the prior art such that the number of n of data blocks of a data source packet may contain any number, i.e., 2, 4, 8, Note Hamada discloses the fixed length frame comprising a plurality of packet data blocks (pk+1 to pk+3), and the variable length packet is divided into two or more fixed-length frames with its header information to locate the beginning of the variable-length packet, and a down counter (103) cooperate with the first header pointer to determining the size of the variable length packet transfer at the fixed length frame with its corresponding blocks. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Hamada in utilizing modulo-8 counter for counting 8 of data blocks of a data source packet, as disclosed supra, because applicant does not disclose that the number 8 and modulo-8 counting, as opposed to other size, overcome a deficiency in the prior art or for any stated purpose.

Regarding claim 5, the limitations of the claim are rejected as the same reasons as set forth in claim 1.

Regarding claims 6-7, the limitations of the claims are rejected as the same reasons as set forth in claims 2-3.

Regarding claim 8, Boyer discloses the counter (415, figure 4) by which data are counted in particular in units of bytes and which outputs a data block counting signal if the number of data that have been countered are as many as defined as belonging a data block (col. 13 lines 1-23).

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Boyer et al. (US PAT. 5,410,546 hereinafter Boyer) and Hamada (JP 411,004,255A) as applied to claim 5 above, and further in view of Lo et al. (US PAT. 6,324,178 hereinafter Lo).

Regarding claim 9, Boyer differs from the claimed invention in not specifically teaching data bus being designated according to the IEEE 1394 standard and the apparatus is part of data link layer module in the interface for this data bus. However, Lo teaches IEEE 1394 serial bus communication standard becoming a popular standard adopted by manufacturers of computer systems and peripheral components for its high speed and interconnection flexibilities (col. 1 lines 31-35). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Boyer in having data bus being designated according to the IEEE 1394 standard and the apparatus is part of data link layer module in the interface for this data bus, as per teaching of Lo, because it provides high speed and interconnection flexibilities.

Response to Arguments

- 6. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The examiner can normally be reached on Mon Fri 10:00am 6:30pm..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on 571-272-4098. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhuo H. Li

Patent Examiner January 31, 2007

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SUPERVISORY PATENT EXAMINER